

UNCLASSIFIED

PE NUMBER: 0305614F
 PE TITLE: JSpOC Mission System

Exhibit R-2, RDT&E Budget Item Justification	DATE May 2009
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BUDGET ACTIVITY 07 Operational System Development	PE NUMBER AND TITLE 0305614F JSpOC Mission System
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Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
Total Program Element (PE) Cost	0.000	0.000	131.271	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
A030 Infrastructure	0.000	0.000	29.469	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
A031 Mission Applications	0.000	0.000	87.520	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
A032 Command & Control	0.000	0.000	8.085	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
A033 Data Integration	0.000	0.000	6.197	0.000	0.000	0.000	0.000	0.000	Continuing	TBD

JSpOC Mission System is a new program element in the FY10 PB. It consolidates on-going efforts from PE 64425F (Integrated Space Situational Awareness (ISSA), PE 64421F (RAIDRS Block 20), and PE 27410F (Space Command and Control) into a single program element as the programs were consolidated into a single program. This program will also develop improved, responsive, and accurate orbital collision predictions for commercial and international space systems.

(U) A. Mission Description and Budget Item Justification

JMS is responsible for space situational awareness (SSA) and command & control of space forces. SSA includes the knowledge of all aspects of space related to operations to thoroughly assess threats to U.S. space assets and develop options, military and diplomatic to counter them and to establish contingency plans to ensure U.S. forces can maintain access to space assets. JMS will access intelligence on adversary space operations, process surveillance of all space objects and activities, maintain detailed reconnaissance of specific space assets; fuse space environmental data, maintain awareness of cooperative space assets; and allow the Joint Functional Component Command for Space (JFCC-Space) to conduct space forces integrated command, control, communications, processing, analysis, dissemination, and archiving activities. Near-term focus is to provide a sustainable net-centric environment with a highly accurate, responsive, and robust SSA system migration from the rapidly aging and sustainment-challenged Space Defense Operations Center (SPADOC) system (SPADOC design end of life was 2002). JMS will provide integrated space knowledge/information for the Commander, JFCC-Space to plan, direct, coordinate, and control operations of assigned forces. JMS will provide the ability to: monitor status, activities and environment for assigned/attached space forces; assess how space forces support the battle space, provide impacts of changes to force status, impacts of enemy forces on space assets; plan space operations to support theater and national operations; and execute Joint Space Tasking Order, track task performance, adapt tasking to changing situations, and conduct technology forecasting for future blocks and emerging needs. JMS will also develop improved information capabilities for integration across SSA sensors, including exposing data when required.

These efforts are in Budget Activity 7, Operational System Development, because they develop new JMS capabilities

Exhibit R-2, RDT&E Budget Item Justification

DATE

May 2009

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0305614F JSpOC Mission System**(U) B. Program Change Summary (\$ in Millions)**

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Previous President's Budget			
(U) Current PBR/President's Budget	0.000	0.000	131.271
(U) Total Adjustments	0.000	0.000	
(U) Congressional Program Reductions			
Congressional Rescissions			
Congressional Increases			
Reprogrammings			
SBIR/STTR Transfer			
(U) <u>Significant Program Changes:</u>			
FY10: This is a new PE in the FY10 PB.			
FY10: Funds transferred from PE 64425F (\$61.6M), 64421F (\$15.1), and PE 27410F (\$6.3M).			
FY10: Additional funds added to program for Command & Control (\$15.6M), Mission Applications and Data Integration (\$22.8M) & Space Collision Avoidance efforts (\$9.9M) (improves processing capacity).			

Exhibit R-2a, RDT&E Project Justification

DATE
May 2009

BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0305614F JSpOC Mission System			PROJECT NUMBER AND TITLE A030 Infrastructure		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
A030 Infrastructure	0.000	0.000	29.469	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

Infrastructure will provide a services-oriented architecture (SOA) net-centric collaborative information environment at the TS/SCI, Secret, and Unclassified levels. Efforts incorporate net-centric enterprise services and integrate incremental space and command & control mission applications services. Priority is migration off the legacy SPADOC hardware and services into a sustainable infrastructure. Effort integrates components of SSA mission applications and C2 capabilities into the JSpOC to create timely, actionable knowledge necessary for maintaining space superiority and exercising command and control of space forces. Funding provides for incremental SOA/net-centric infrastructure replacement of SPADOC via concept definition/research and analysis, technical studies, and development activities. Acquisition of hardware/core services include visualization/User Defined Operational Picture implementation, registry/user profiles management, collaboration expansion, enclave information assurance implementation and accreditation across multiple security domains.

These efforts are in Budget Activity 7, Operational System Development

(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Integration			7.000
(U) Design and Development			19.606
(U) Review, Management and Support			2.863
(U) Total Cost	0.000	0.000	29.469

(U) C. Other Program Funding Summary (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							
(U)									Continuing	TBD

(U) D. Acquisition Strategy

Ongoing activities utilize existing risk reduction engineering and study efforts. Focus is on rapid approach with incremental deliveries to deploy a SOA environment and tools to progressively advance operational capabilities toward an integrated JMS. Integrator will provide high-level technical oversight support and assist the development of capabilities to the warfighter.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis

DATE

May 2009

BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
07 Operational System Development				0305614F JSPOC Mission System					A030 Infrastructure			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
Integration	TBD	TBD	0.000	0.000		0.000		7.000	Nov-09	Continuing	TBD	
Infrastructure Design & Development	C/IDIQ	Various	0.000	0.000		0.000		19.606	Nov-09	Continuing	TBD	
Subtotal Product Development			0.000	0.000		0.000		26.606		Continuing	TBD	0.000
Remarks:												
(U) <u>Support</u>												
Program Office Support	Various	Electronic Systems Center	0.000	0.000		0.000		0.800	Nov-09	Continuing	TBD	
Development, Review and Management	SS/FP LOE	FFRDC	0.000	0.000		0.000		0.946	Nov-09	Continuing	TBD	
Development, Review and Management	C/FP/LOE	Various	0.000	0.000		0.000		1.117	Nov-09	Continuing	TBD	
Subtotal Support			0.000	0.000		0.000		2.863		Continuing	TBD	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Management</u>												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			0.000	0.000		0.000		29.469		Continuing	TBD	0.000

Exhibit R-4, RDT&E Schedule Profile

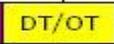
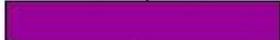
DATE

May 2009

BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0305614F JSpOC Mission System

PROJECT NUMBER AND TITLE
A030 Infrastructure

Activity	FY10	FY11	FY12	FY13	FY14	FY15	FY16
JMS Increment 1							
Infrastructure Design & Development							
1A: UDOP/JWICS/SIPR							
1B: NIPR/Messaging							

DAE: Defense Acquisition Executive DT: Development Test IA: Info Assurance IOC/FOC: Initial/Full Operational Capability JWICS: Joint Worldwide Intelligence Comm System
 NIPR/SIPR: Nonsecure/Secure Internet Protocol Routing OT: Operations Test SOA: Service-Oriented Architecture UDOP: User Defined Operational Picture

 Risk Reduction/Concept Activities  Design / Development  Integration Test  Key events

Exhibit R-4a, RDT&E Schedule Detail

DATE

May 2009

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0305614F JSpOC Mission System

PROJECT NUMBER AND TITLE

A030 Infrastructure

(U) Schedule Profile

FY 2008

FY 2009

FY 2010

(U) Increment 1A: UDOP/JWICS/SIPR

1-4Q

(U) Increment 1B: NIPR/Messaging

2-4Q

Exhibit R-2a, RDT&E Project Justification

DATE
May 2009

BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0305614F JSpOC Mission System			PROJECT NUMBER AND TITLE A031 Mission Applications		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
A031 Mission Applications	0.000	0.000	87.520	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) A. Mission Description and Budget Item Justification

Mission applications will provide space services to enhance the accuracy, sustainability, and responsiveness of space surveillance capabilities from the legacy SPADOC SSA functions onto a net-centric enterprise enabling automated, real-time correlation, integration, distribution of data, and providing the knowledge environment necessary to enable the Commander JFCC-Space rapid, responsive decisions for the protection of space assets from proliferating threats (adversary and environmental, including orbiting debris). The system will provide a high accuracy space catalog (knowledge of space objects), increased observation verification and sensor tasking processing capabilities, and improved event processing. Research, design, and development will provide SSA space catalog applications, services, space surveillance observation processing, and sensor tasking. Activities included are maneuver processing, sensor calibration, conjunction analysis/collision prediction, high accuracy element set generation, re-entry/decay prediction/processing, , threat processing, look angles, and web services interface. Funding includes technical studies, systems engineering, and integration.

This effort will quickly deliver expanded JSpOC capabilities to conduct responsive spacecraft collision avoidance prediction calculations and unclassified information message transmissions incorporating both commercial and international space assets. Also, system capacity will be increased to provide high accuracy orbital predictions for up to 1300 tracked space objects.

(U) B. Accomplishments/Planned Program (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Design and Development			66.863
(U) Risk Reduction			5.500
(U) Review, Management, and Support			5.257
(U) Collision Avoidance Design and Development			9.900
(U) Total Cost	0.000	0.000	87.520

(U) C. Other Program Funding Summary (\$ in Millions)

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							

(U)

(U) D. Acquisition Strategy

Continues existing SSA risk reduction efforts with emphasis on employing rapid incremental acquisition to progressively advance capabilities towards integrated SSA envisioned by existing architectures and roadmaps.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis

DATE

May 2009

BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
07 Operational System Development				0305614F JSpOC Mission System					A031 Mission Applications			
(U) <u>Cost Categories</u> (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
Mission Apps Design and Develop	TBD	Various	0.000	0.000		0.000		66.863	Nov-09	Continuing	TBD	
SSA Risk Reduction	TBD	Various	0.000	0.000		0.000		5.500	Dec-09	Continuing	TBD	
Collision Avoidance Design and Develop	TBD	TBD	0.000	0.000		0.000		9.900	Dec-09	Continuing	TBD	
Subtotal Product Development			0.000	0.000		0.000		82.263		Continuing	TBD	0.000
Remarks:												
(U) <u>Support</u>												
Program Office Support	Various	Electronic Systems Center	0.000	0.000		0.000		0.500	Nov-09	Continuing	TBD	
Development, Review and Management	SS/FP LOE	FFRDC	0.000	0.000		0.000		2.521	Nov-09	Continuing	TBD	
Development, Review and Management	C/FP LOE	Various	0.000	0.000		0.000		2.236	Nov-09	Continuing	TBD	
Subtotal Support			0.000	0.000		0.000		5.257		Continuing	TBD	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Management</u>												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			0.000	0.000		0.000		87.520		Continuing	TBD	0.000

Exhibit R-4, RDT&E Schedule Profile

DATE

May 2009

BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0305614F JSpOC Mission System

PROJECT NUMBER AND TITLE
A031 Mission Applications

Activity	FY10	FY11	FY12	FY13	FY14	FY15	FY16
JMS Increment 1 Risk Reduction							
JMS Increment 2 Risk Reduction							

DAE: Defense Acquisition Executive DT: Development Test IOC/FOC: Initial/Full Operational Capability Picture Key Decision Point NIPR/SIPR: OT: Operations Test
 SOA: Service-Oriented Architecture

Risk Reduction/Concept Activities
 Design / Development
 Integration Test
 Key events

Exhibit R-4a, RDT&E Schedule Detail

DATE

May 2009

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0305614F JSpOC Mission System

PROJECT NUMBER AND TITLE

A031 Mission Applications

(U) Schedule Profile

FY 2008

FY 2009

FY 2010

(U) Increment 1 Risk Reduction

1-4Q

(U) Increment 1A: High Accuracy Catalog

1-4Q

(U) Increment 1B: Observation Processing

2-4Q

(U) Increment 2 Risk Reduction

1-4Q

Exhibit R-2a, RDT&E Project Justification

DATE
May 2009

BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0305614F JSpOC Mission System			PROJECT NUMBER AND TITLE A032 Command & Control		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
A032 Command & Control	0.000	0.000	8.085	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) **A. Mission Description and Budget Item Justification**

Command & Control (C2) effort will design, develop and integrate functions to create, visualize, and share decision-relevant views of space operational environment at all echelons. Functions include Space Situational Awareness and attack assessment data to provide an integrated space information environment for the JSpOC C2 node and improve deliberate attack warning/reporting, planning, tasking, course of action (COA) development capability, and situation assessment. These efforts are in Budget Activity 7, Operational System Development

(U) **B. Accomplishments/Planned Program (\$ in Millions)**

	FY 2008	FY 2009	FY 2010
(U) Risk Reduction			6.566
(U) Review, Management and Support			1.519
(U) Total Cost	0.000	0.000	8.085

(U) **C. Other Program Funding Summary (\$ in Millions)**

	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total Cost
(U)										

(U) **D. Acquisition Strategy**

Risk reduction technology development/operational pilots to decrease uncertainties then employ competitively selected developer to produce and field incremental capabilities.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis

DATE

May 2009

BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
07 Operational System Development				0305614F JSPOC Mission System					A032 Command & Control			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
C2 Risk Reduction	TBD	Various	0.000	0.000		0.000		6.566	Dec-09	Continuing	TBD	
Subtotal Product Development			0.000	0.000		0.000		6.566		Continuing	TBD	0.000
Remarks:												
(U) <u>Support</u>												
Program Office Support	Various	Electronic Systems Center	0.000	0.000		0.000		0.250	Nov-09	Continuing	TBD	
Development, Review and Management	SS/FP LOE	FFRDC	0.000	0.000		0.000		0.630	Nov-09	Continuing	TBD	
Development, Review and Management	C/FP LOE	Various	0.000	0.000		0.000		0.639	Nov-09	Continuing	TBD	
Subtotal Support			0.000	0.000		0.000		1.519		Continuing	TBD	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Management</u>												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			0.000	0.000		0.000		8.085		Continuing	TBD	0.000

Exhibit R-4, RDT&E Schedule Profile

DATE

May 2009

BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0305614F JSpOC Mission System

PROJECT NUMBER AND TITLE
A032 Command & Control

Activity	FY10	FY11	FY12	FY13	FY14	FY15	FY16
JMS Increment 2 Risk Reduction							

DAE: Defense Acquisition Executive DT: Development Test IOC/FOC: Initial/Full Operational Capability OT: Operations Test

Risk Reduction/Concept Activities

Design / Development

Integration Test

Key events

Exhibit R-4a, RDT&E Schedule Detail

DATE

May 2009

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0305614F JSpOC Mission System

PROJECT NUMBER AND TITLE

A032 Command & Control

(U) Schedule Profile

FY 2008

FY 2009

FY 2010

(U) Increment 2 Risk Reduction

2-4Q

Exhibit R-2a, RDT&E Project Justification

DATE
May 2009

BUDGET ACTIVITY 07 Operational System Development					PE NUMBER AND TITLE 0305614F JSpOC Mission System			PROJECT NUMBER AND TITLE A033 Data Integration		
Cost (\$ in Millions)	FY 2008 Actual	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost to Complete	Total
A033 Data Integration	0.000	0.000	6.197	0.000	0.000	0.000	0.000	0.000	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0		

(U) **A. Mission Description and Budget Item Justification**

Effort to provide enterprise level operational space surveillance information from the worldwide space tracking network and intelligence sources onto a net-centric architecture enabling the Joint Space Operations Center (JSpOC) and priority users to subscribe, retrieve, and monitor space surveillance awareness (SSA) activities. This project is vital to providing JFCC-Space real-time situational awareness of multiple space tracking missions and facilitates access to pre-data collection information (e.g., sensor tasking, data collection plans, sensor status, etc.), real-time tracking data (e.g., imagery and metric observations), and post-data collection (e.g., user defined re-imaging service, archived mission data, etc.). Funds will develop the architecture to satisfy interoperability with DOD net-centric standard and JSpOC technical interfaces, integrate and field capabilities, and implement logistical planning.

These efforts are in Budget Activity 7, Operational System Development, because they develop capabilities, provide technical expertise, and support for the net-centric data integration of space surveillance information.

(U) **B. Accomplishments/Planned Program (\$ in Millions)**

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>
(U) Research and Analysis	0.000	0.000	1.537
(U) Design and Development	0.000	0.000	3.417
(U) Review, Management and Support	0.000	0.000	1.243
(U) Total Cost	0.000	0.000	6.197

(U) **C. Other Program Funding Summary (\$ in Millions)**

	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost to</u>	<u>Total Cost</u>
(U)	<u>Actual</u>	<u>Estimate</u>	<u>Complete</u>							

(U) **D. Acquisition Strategy**

Supports on-going data exposure efforts for SSA sensors and intelligence sources to fulfill JSpOC data requirements via a net-centric based enterprise architecture.

UNCLASSIFIED

Exhibit R-3, RDT&E Project Cost Analysis

DATE

May 2009

BUDGET ACTIVITY				PE NUMBER AND TITLE					PROJECT NUMBER AND TITLE			
07 Operational System Development				0305614F JSPOC Mission System					A033 Data Integration			
(U) Cost Categories (Tailor to WBS, or System/Item Requirements) (\$ in Millions)	<u>Contract Method & Type</u>	<u>Performing Activity & Location</u>	<u>Total Prior to FY 2008 Cost</u>	<u>FY 2008 Cost</u>	<u>FY 2008 Award Date</u>	<u>FY 2009 Cost</u>	<u>FY 2009 Award Date</u>	<u>FY 2010 Cost</u>	<u>FY 2010 Award Date</u>	<u>Cost to Complete</u>	<u>Total Cost</u>	<u>Target Value of Contract</u>
(U) <u>Product Development</u>												
Concept Definition Research/Analysis	Various	TBD	0.000	0.000		0.000		1.537	Nov-09	Continuing	TBD	
Systems Product Development	Varios	TBD	0.000	0.000		0.000		3.417	Nov-09	Continuing	TBD	
Subtotal Product Development			0.000	0.000		0.000		4.954		Continuing	TBD	0.000
Remarks:												
(U) <u>Support</u>												
Program Office/Related Support	Various	TBD	0.000	0.000		0.000		1.243	Oct-09	Continuing	TBD	
Subtotal Support			0.000	0.000		0.000		1.243		Continuing	TBD	0.000
Remarks:												
(U) <u>Test & Evaluation</u>												
Subtotal Test & Evaluation			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) <u>Management</u>												
Subtotal Management			0.000	0.000		0.000		0.000		0.000	0.000	0.000
Remarks:												
(U) Total Cost			0.000	0.000		0.000		6.197		Continuing	TBD	0.000

Exhibit R-4, RDT&E Schedule Profile

DATE

May 2009

BUDGET ACTIVITY
07 Operational System Development

PE NUMBER AND TITLE
0305614F JSpOC Mission System

PROJECT NUMBER AND TITLE
A033 Data Integration

Activity	FY10	FY11	FY12	FY13	FY14	FY15	FY16
Data Integration							

Risk Reduction/Concept Activities

Design / Development

Integration Test

Key events

Exhibit R-4a, RDT&E Schedule Detail

DATE

May 2009

BUDGET ACTIVITY

07 Operational System Development

PE NUMBER AND TITLE

0305614F JSpOC Mission System

PROJECT NUMBER AND TITLE

A033 Data Integration

(U) Schedule Profile

FY 2008

FY 2009

FY 2010

(U) Data Integration Services

1-4Q